

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/533,720	05/03/2005	Kam Choon Kwong	SG 020031	7853	
24737	7590 09/05/2006		EXAM	EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			HU, RUI MENG		
P.O. BOX 30	• •		APTIBUT	DA DED ANN (DED	
BRIARCLIF	F MANOR, NY 10510		ART UNIT	PAPER NUMBER	
			2631		
			DATE MAILED: 09/05/2000	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

			N
	Application No.	Applicant(s)	
	10/533,720	KWONG, KAM CHOON	
Office Action Summary	Examiner	Art Unit	
	RuiMeng Hu	2631	
The MAILING DATE of this communication		vith the correspondence address .	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	COMMUN R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MO atute, cause the application to become a	ICATION. reply be timely filed NTHS from the mailing date of this communicated (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 5	/3/2005.		
. –	This action is non-final.		
3) Since this application is in condition for allo		ters, prosecution as to the merits	s is
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.	O. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the appli	cation.		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.			ì
6)⊠ Claim(s) 1 and 2 is/are rejected.			
7)⊠ Claim(s) <u>1</u> is/are objected to.			
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	niner.		
10)⊠ The drawing(s) filed on <u>03 May 2005</u> is/are:		cted to by the Examiner.	
Applicant may not request that any objection to	• • • •	•	
Replacement drawing sheet(s) including the cor	rection is required if the drawin	g(s) is objected to. See 37 CFR 1.12	21(d).
11) The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152	:
Priority under 35 U.S.C. § 119			
12) △ Acknowledgment is made of a claim for fore a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority document of the priori	ents have been received. ents have been received in priority documents have bee	Application No	
* See the attached detailed Office action for a		t received.	
Attachment(s)			
1) ⊠ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date	
 Rollice of Braitsperson's Falent Brawing Review (FTO-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 12/27/2005. 		Informal Patent Application (PTO-152)	



Application/Control Number: 10/533,720

Art Unit: 2631

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statements (IDS) submitted on 12/27/2005 has been considered by the examiner and made of record in the application file.

Claim Objections

- 3. Claim 1 is objected to because of the following informalities:
 - a) On line 8, replace "capacitor" with --capacitors--,
 - b) On line 10, replace "capacitor" with --capacitors--.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/533,720

Art Unit: 2631

w (m) a

5. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over N.V. Philips Gloeilampfabrieken (BE 389750) in view of Sawamoto et al. (US Patent 6583826).

Consider **claim 1**, N.V. Philips Gloeilampfabrieken clearly discloses an intermediate frequency circuit (figure 1, title), comprising: a pair of input nodes; a pair of output nodes; a first inductor (figure 1, inductor 2) being coupled between the pair of input nodes; a second inductor (figure 1, inductor 7) being coupled between the pair of output nodes; a first and a second capacitors (figure 1, capacitors 3 and 6), which are coupled between a first input node and a first output node; a third and a fourth capacitors (figure 1, capacitors 5 and 8), which are coupled between a second input node and a second output node; and a fifth capacitor (figure 1, capacitor 4), which is coupled between the first capacitor (figure 1, capacitor 3) and the fourth capacitor (figure 1, capacitor 8) and between the second capacitor (figure 1, capacitor 6) and the third capacitor (figure 1, capacitor 5) (page 2 line 26 - page 3 line 15, figure 1).

However N.V. Philips Gloeilampfabrieken fails to disclose the intermediate frequency circuit is connected between a frequency mixing circuit and an intermediate frequency amplifier circuit.

In the same field of endeavor, Sawamoto et al. clearly disclose an intermediate frequency circuit is connected between a mixer (figure 6, mixer 21) and an intermediate frequency amplifier (figure 6, intermediate frequency amplifier 24) (column 1 lines 12-20, figure 6).

۾ رامون ۽

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the selection technique taught by Sawamoto et al. into the art of N.V. Philips Gloeilampfabrieken as to down convert the radio frequency (RF) signal into intermediate frequency (IF) signal using a mixer and to amplify the IF signal using an IF amplifier for processing received RF signal properly and outputting desired results.

Consider claim 2, as applied to claim 1 above, N.V. Philips Gloeilampfabrieken as modified by Sawamoto et al. clearly discloses the intermediate frequency circuit, wherein said first capacitor (figure 1, capacitor 3) is coupled in series to said second capacitor (figure 1, capacitor 6); and said third capacitor (figure 1, capacitor 5) is coupled in series to said fourth capacitor (figure 1, capacitor 8).

Conclusion

6. Any response to this Office Action should be faxed to (571) 273-8300 or mailed

to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RuiMeng Hu whose telephone number is 571-270-1105.

Application/Control Number: 10/533,720

Art Unit: 2631

The examiner can normally be reached on Monday - Thursday, 8:00 a.m. - 5:00 p.m.,

EST.

M 3 - 1.00

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

Page 5

supervisor, Rafael Perez-Gutierrez can be reached on 571-272-7915. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

RuiMeng Hu R.H./rh

August 28, 2006

EDAN ORGAD

PATENT EXAMINER/TELECOMM. Il azal 8/26/06